STUDENT ID NO								

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 2, 2019/2020

MVR 2043 - SIMULATION SCRIPTING

(All sections / Groups)

2 MARCH 2020 2.30 p.m – 4.30 p.m (2 Hours)

INSTRUCTIONS TO STUDENTS

- 1. This Question paper consists of 6 pages with 15 objective questions and 10 subjective questions only.
- 2. Answer ALL questions in section A and C. Answer FIVE out of SEVEN question in section B. All questions carry equal marks and the distribution of the marks for each question is given.
- 3. Please write all your answers in the Answer Booklet provided.

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Section A: Objective Questions

(Total: 15 Marks)

Continued

	 Which of the following are the benefits of Augmented Reality to brands and organizations? I. Increases engagement and provides a richer user experience. II. Increases perceived value of products and brands. III. Mobile and hugely accessible due to mass consumers with smartphone IV. Increases the advancement of smartphone camera technology A. I only B. I, II and III C. I, II and IV
	D. All of the above
	D. All of the above
2	reality adds virtual digital objects to real life often through the camera on a smartphone. A. Virtual B. Mixed C. Augmented D. Physical
3	reality could imply a complete immersion experience that shuts out the physical world. A. Mixed B. Augmented C. Immersive D. Virtual
4	reality is the merging of real and virtual worlds to produce new environments and visualizations where physical and digital objects co-exist and interact in real time. A. Mixed B. Virtual C. Augmented D. Combined

- 5. A term to describe the extent to which a user can modify form and content of a mediated environment.
 - A. Engagement
 - B. Richness
 - C. Interactivity
 - D. Mapping
- 6. HMD stands for?
 - A. Head Made Display
 - B. Head Masked Display
 - C. Head Mounted Display
 - D. Head Mounted Detection
- 7. TRANSFORM, can be used for all except...
 - A. Rotate an object
 - B. Transform the object colour
 - C. Move an object in space
 - D. Scale an object's size
- 8. What kind of variable that is accessible throughout the script but is unseen in the inspector window in Unity?
 - A. Private
 - B. Local
 - C. Public
 - D. Hidden
- 9. In Unity3D, to hide a game object you have to use the following code?
 - A. gameObject.SetActive(hidden);
 - B. gameObject.SetActive = hidden;
 - C. gameObject.SetActive = false;
 - D. gameObject.SetActive(false);
- 10. Which one of the following is valid Generic Function Definition in UnityScript?
 - A. T FuncName<T>();
 - B. function FuncName<T>(): T;
 - C. function FuncName.<T>0: T;
 - D. void FuncName<T>();

Continued

- 11. NavMesh Agents requires a particular **Component** which is determined by a Vector3 typed variable and determines its end path. What is that component?
 - A. Auto Braking
 - B. Radius
 - C. SetDestination
 - D. Acceleration
- 12. ____ are a common concept to all 3D applications, as they provide the means to set the visual appearance of a 3D model. From basic colors to reflective image-based surfaces?
 - A. Physics
 - B. Navigation
 - C. Materials
 - D. Audio
- 13. Using the following you able to change parent of GameObject?
 - A. hudCamera.transform.parent = hudSelectedObject.transform;
 - B. hudCamera.transform.SettingParent(hudSelectedObject.transform);
 - C. Both
 - D. None of the above
- 14. Which of the following is the shorthand for Vector3.forward?
 - A. Vector3(0,0,1)
 - B. Vector3(1,0,0)
 - C. Vector3(0,1,0)
 - D. Vector3(1,1,0)
- 15. 'float currentSpeed;' is written in the script.

What is the argument to check if the currentSpeed is more than 0?

- A. Debug.Log(currentSpeed);
- B. If (currentSpeed ≥ 0)
- C. void CheckCurrentSpeed(){}
- D. if (currentSpeed > 0.0f)

Continued

MVR2043		SIMULATION SCRIPTING	
Section 1	3: Subjective Question	ns	2.11.11.11.2020
Answer :	any 5 (FIVE) questio	ons ONLY.	(Total: 10 Marks
1. What is	s the difference betwe	een marker and markerless AR	
			(2 Marks
2. Explair	the procedure on ho	w to make AR app with EasyA	AR and Unity?
			(2 Marks
3. Explain	the difference betwe	en a Collider and a Trigger?	
4 D.C	1 . 1		(2 Marks)
4. Define	what is SLAM techno	ology?	
5. Mention	what is the forestion	-51	(2 Marks)
	what is the lunchon	of Inspector in Unity 3D?	(2 Montre)
6. Define v	vhat is Object Pooling	5 ?	(2 Marks)
	3	,•	(2 Marks)
7. How to 6	nabling Unity VR su	pport?	,
			(2 Marks)
Section C:	Subjective Questions	+	
Answer all	questions.		(Total: 15 Mar.)
l. A few c	ommons variables to	se that hains word in Gu	(Total: 15 Marks)
string. E	xplain the variables t	pe that being used in C# script ypes below.	s are int, float, bool and
i.	int		(4 Marks)
ii. iii.	float bool	•	
iv.	string		

Continued

2. Write down C# script to reset a Game Object y-position to 0 when it's y-position exceed the assigned float name yPosLimit. Kindly fill in with the code provided below.

```
using UnityEngine;
using System.Collections;

public class SectionCQ2 : MonoBehaviour {

GameObject cube;
Vector3 resetPos;

//declare a float

void Start () {

//assign a value to the float
}

void Update () {

cube.transform.Translate(0, 1*Time.deltaTime, 0);
//reset the cube y-position here with condition
}
```

3. Write the required function that does the following:

(7 Marks)

a. Finds a GameObject by name "SomeGuy" and returns it.

b. Get the C# component by name "GameManager" and disable it.

c. Hide a GameObject by name "Cube" with delay of 2 seconds when player press a button.

End of Page.